

INDEX TO VOLUME LV

- Acanthoscelidius siolatus*, n. sp., 57.
Aedes aegypti, nutritional requirements of reproduction in, 209.
 Aging, some biological factors in, 193.
 Algae of the Panama Canal and its tributaries, 99.
 Algicides, preliminary screening for, 1.
Allolobophora minima Muldal, natural history of, 241.
 Amatayakul, Thanomwang, 343.
 Angerer, Clifford A., 296, 329.
 Annual Report of the Ohio Academy of Science, 247.
 Aref, Hussein, 354.
Auleutes, triplehorni, n. sp., 58.
- Bacterial interaction, studies on: I.
 Effect of trypsin on cellulase activity of *Cellulomonas flavigena*, 335.
 Beech-Maple forest, changes with age in the proportion of dominants in, 73.
 Bethke, William M., 182.
 Black, Arthur H., 293.
 Blicke, R. L., 308.
 Borrer, Donald J., 321.
 Brass, Roman, chronological variations in the composition of, 137.
 Breakey, E. P., 63.
 Brooks, R. F., 209.
 Brown, Thomas E., 257.
- Calcium in cinder block, determination of, 293.
 Caley, Earle R., 44, 137, 311.
 Calhoon, Thomas B., 329.
 Cancer of the thyroid in animals, 23.
 Carbonic anhydrase in plants, 257.
 Carman, J. E., 65.
Cercopiedius, n. gen., 291.
Cercopiedius artemisiae (Pierce), n. comb., 291.
Cercopiedius chisaius, n. sp., 289.
Cercopiedius clispus, n. sp., 287.
Cercopiedius confusor, n. sp., 289.
Cercopiedius isquiltus, n. sp., 284.
Cercopiedius maspavancus, n. sp., 286.
Cercopiedius schwarzi, n. sp., 284.
Cercopiedius simius, n. sp., 287.
Cercopiedius strigicollis, n. sp., 286.
Chaetechidius, n. gen., 282.
Chaetechidius speciosus, n. sp., 282.
 Chillicothe test-core section, revision of, 65.
 Clinton County, Ohio, vascular flora of, 215.
 Coin blanks, bronze, chemical dating of, 44.
 Conant, Roger, 61.
Cophes texana, n. sp., 190.
- Danner, Wilbert R., 182.
 Deebel, Wallace H., 44, 311.
 DeLong, D. M., 21, 209.
 Dimond, J. B., 21, 209.
- Dodson, Vance H., 293.
 Drainage patterns, Alambre Valley, Arizona, 263.
 Dune Community, succession in, 90.
- Egg production from milk fed mosquitoes, 21.
 Elliott, R., 193.
 Errata, 319.
Erythroneura (Eratoneura) longa, n. sp., 245.
Erythroneura (Eratoneura) robusta, n. sp., 245.
Erythroneura (Eratoneura) schista, n. sp., 246.
Eudorina interconnexa, sp. nov., 100.
Euglena longicudata, sp. nov., 104.
Euglena pseudoxuris, sp. nov., 106.
Euglena subthinophila, sp. nov., 106.
Eutrepia elongata, sp. nov., 119.
 Evolution, organic, outline of the process of, 321.
 Eyster, H. Clyde, 257.
- Fibrinolysin, synthesis of by fungi, 343.
 Flora project, the Ohio, 64.
 Flora, vascular, Clinton County, Ohio, 215.
 Foraminifera, small, of Pottsville formation in Ohio, 81.
 Forsthoefel, Paulinus F., 372.
 Frogs, Oxygen consumption of, 296.
Fusobacterium polymorphum, a motile strain of, 141.
- Gene, recessive sex-linked, estimation of the frequency of, 372.
 Genus *Cophes* in the U.S. and Mexico, a synopsis of, 188.
 Geological interpretation, ground water hydraulics as an aid to, 13.
 Giltz, M. L., 47.
 Goldfish, effect of adrenocortical extract and sesame oil on oxygen consumption of, 329.
 Goiter of the thyroid in animals, 23.
 Goslin, Robert M., 358.
 Gray, J. C., 129.
 Gray, W. D., 212, 335.
 Ground-water hydraulics as an aid to geologic interpretation, 13.
- Haplopogon*, notes on, 315.
Haplopogon triangulatus, n. sp., 316.
 Henry, Robert D., 301.
 Hintz, Walter James, 271.
 Hoffman, Heiner, 141.
 Hussein, Abdel A., 354.
- Indians, 18th century Delaware, semantic analysis of a few anatomical terms of, 363.

- Knierim, John A., 21.
 Knull, Dorothy J., 245.
 Kosak, Alvin I., 339.
- Laufersweiler, J. D., 73.
 Lea, A. O., 21, 209.
 Limestones in Ohio, age relations of the middle Devonian, 147.
- Mabrouk, Ahmed F., 354.
 Machowicz, Paul, 129.
Macropodus opercularis L., branchial circulation in, 129.
Madgalis hockingensis, n. sp., 56.
 Mahr, August C., 363.
 Maloney, Thomas E., 1.
 Marple, M. F., 81.
 Marshall, H. G., 90.
 Martin, C. H., 315.
 Metal specimens from Afghanistan, results of examination of, 311.
Micralcinus, a synopsis of, 95.
Micralcinus, key to species of, 95.
Micralcinus stehri, n. sp., 97.
 Miller, William E., 317.
 Mississippian-Pennsylvanian unconformity near Adams Mills, Ohio, 182.
 Mosquitoes, milk fed, egg production from, 21.
 Moth, pitch twig, notes on the life cycle of three parasites of, 317.
 Murchie, W. R., 241.
 Muchmore, William B., 267.
 Murray, Mary C., 296.
- Nanophyes confusor*, n. sp., 56.
 New Texan *Erythroneura*, 245.
 Norstog, Knut J., 340.
- Oat coleorhiza, responses of, to various treatments in culture, 340.
 Osburn, R. C., In Memorium, 376.
 Oswald, V. H., 200.
- Palmer, C. Mervin, 1.
 Panama Canal and tributaries, algae of, 99.
 Peattie, Roderick, 9.
Phacus brachykentron var. *caudatus* var. nov., 108.
Phacus incisus, sp. nov., 110.
Phacus ranulus, sp. nov., 112.
Phacus undulatus fa. *minus* fa. nov., 114.
 Pheasants, ring-necked, audibility curve for, 122.
Phyllotrox fulvipennis, n. sp., 54.
Physarum polycephalum, riboflavin synthesis in, 212.
 Phytoplankton, Lake Erie, variations in populations and cell dimensions of, 271.
 Popham, Richard A., 301.
 Porter, F. E., 335.
 Prescott, G. W., 99.
Protogynella Jones, taxonomics of the genus, 200.
Protogynella pauciova, n. sp., provis, 206.
Pseudocercopæus, n. gen., 290.
Pseudocercopæus setosus, n. sp., 290.
- Rana pipiens*, sperm emission in, 47.
 Rynchophora, new Ohio, 54.
 Riboflavin synthesis in *Physarum polycephalum*, 212.
 Rock shelters, Ohio, animal remains from, 358.
 Root hairs, multicellular on adventitious roots of *Kalanchoe fedtschenkoi*, 301.
- Saccharomyces cerevisiae* Hansen, methanol tolerance of three strains of, 185.
 Salamanders of Warner's Hollow, notes on, 267.
 Schlumberger, Hans G., 23.
 Sleeper, Elbert L., 54, 95, 188, 279.
 Snake, red-bellied water, two new Ohio localities, 61.
 Spittlebugs on strawberries, control of, 63.
Sternochetus woodruffi, n. sp., 59.
 Stewart, Grace A., 147.
 Stewart, P. A., 122.
- Tabanidae, observations on habits of, 308.
 Terrell, E. E., 215.
 Thyroid, goiter and cancer of in animals, 23.
 Touraco, extraction of pigment from feathers of by soap solution, 339.
Trachelomonas armata var. *ovata* fa. *truncata* fa. nov., 114.
Trachelomonas armata fa. *paucispina* fa. nov., 114.
Trachelomonas ensifera fa. *dentifera* fa. nov., 115.
Trachelomonas fluviatilis var. *curvicauda* var. nov., 115.
Trachelomonas fluviatilis var. *rugosa* var. nov., 115.
Trachelomonas hispida var. *papillata* var. nov., 116.
Trachelomonas Lefevrei var. *levis* var. nov., 116.
Trachelomonas napiformis, sp. nov., 116.
Trachelomonas pisciformis, sp. nov., 117.
Trachelomonas pulcherrima var. *elevatum* var. nov., 117.
Trachelomonas pulcherrima var. *laticollaris* fa. nov., 117.
Trachelomonas speciosa var. *spinosa* var. nov., 117.
Trachelomonas subflava sp. nov., 118.
 Trachyloeiini, a review, 279.
 Troyer, James R., 185.
Tyloderma asclepiasae, n. sp., 58.
- Vitamin C, stability of in tomato juice, 354.
- Walton, William C., 13.
 Wargo, Joseph G., 263.
 Weiser, H. H., 335.
 West Africa, progress of nationalism in, 9.